

Figure 1. Guanylin chymotrypsin sensitivity as determined by cGMP assay

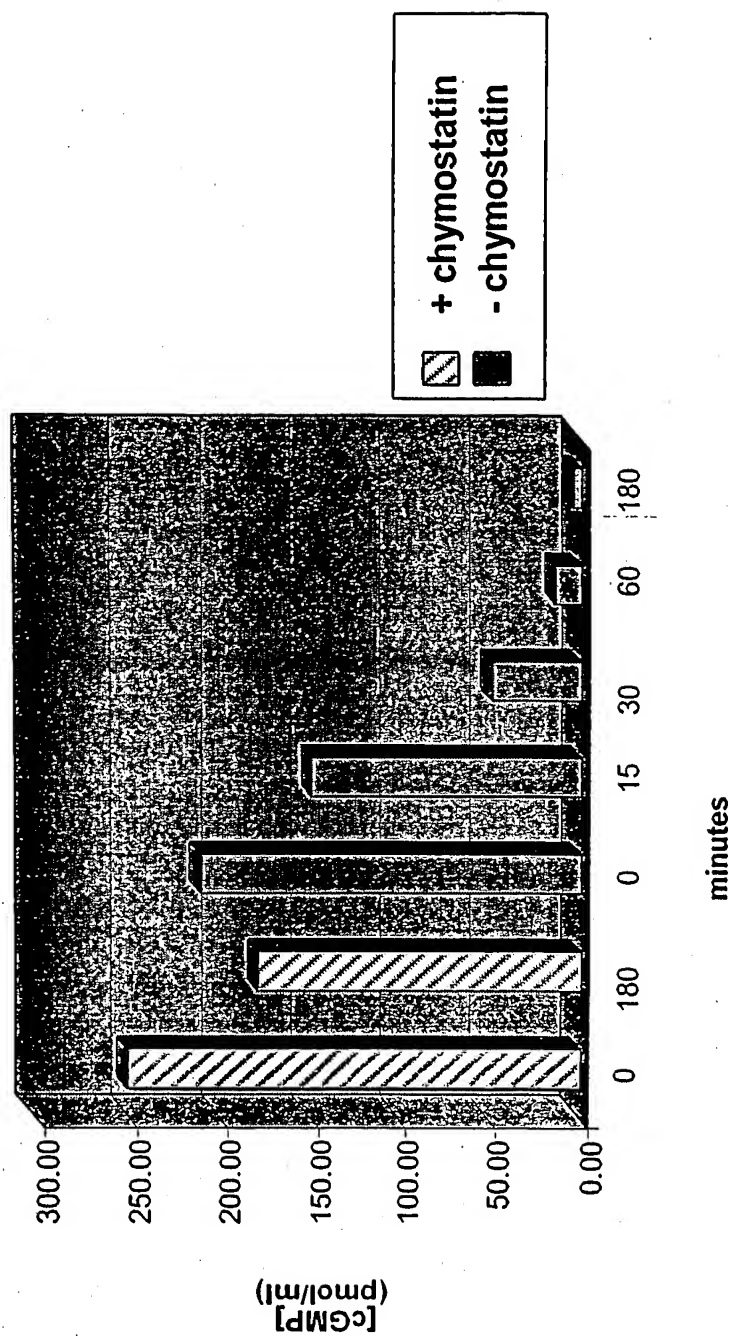
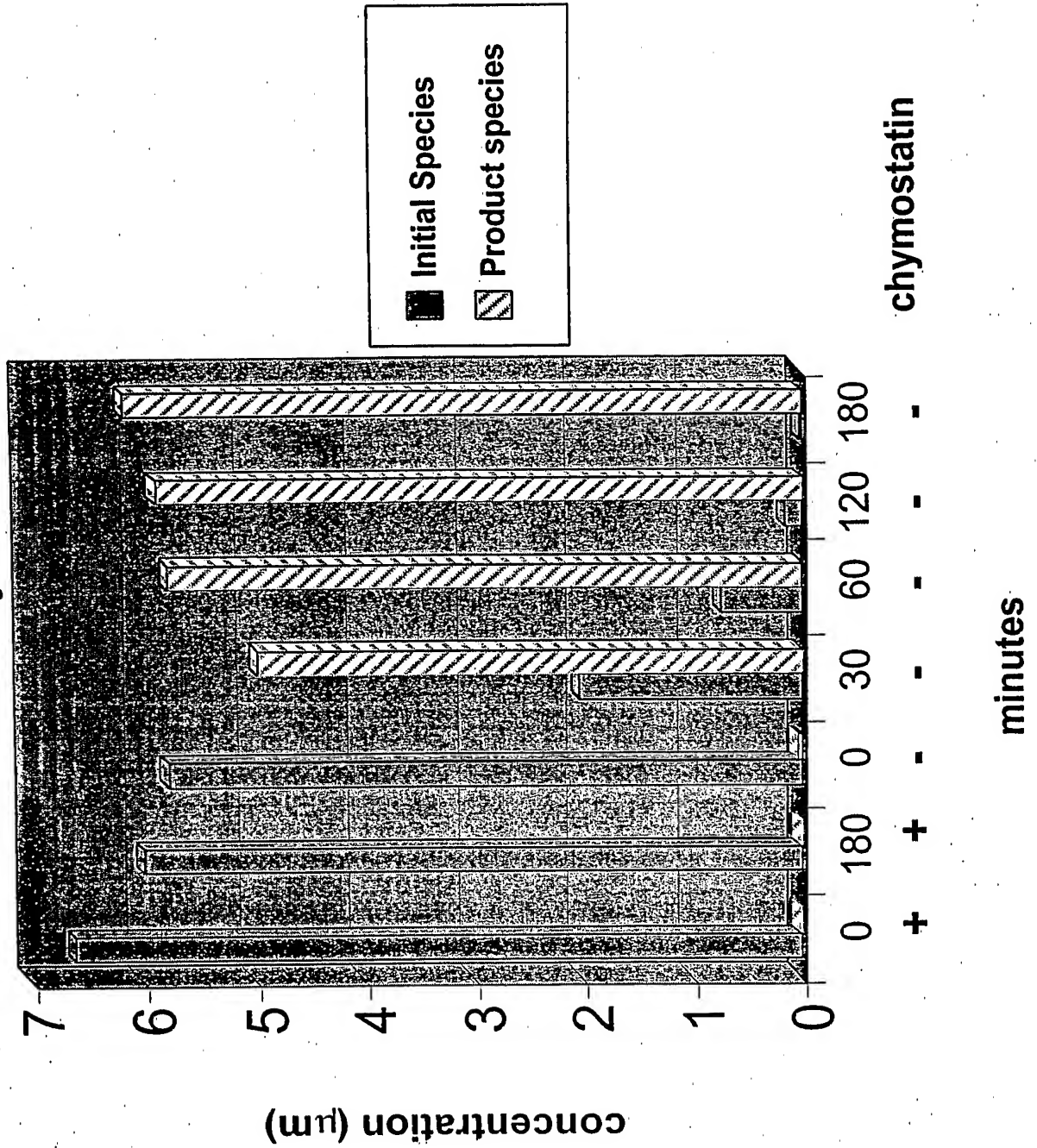


Figure 2. Guanylin chymotrypsin sensitivity as determined by LCMS analysis



Pro Gly Thr Cys Gly Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys

Human Guanylin (SEQ ID NO:)

[illegible]

FIG. 3
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---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 1)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 2)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 3)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 4)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 5)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 6)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 7)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 8)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 9)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 10)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 11)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 12)
---	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 13)
---	Gly	---	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 14)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 15)
---	Gly	---	Cys	---	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 16)
---	Gly	---	Cys	---	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 17)
---	Gly	---	Cys	---	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 18)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 19)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 20)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 21)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 22)
---	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 23)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 24)
---	Gly	---	Cys	Gly	---	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 25)
---	Gly	---	Cys	Gly	---	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 26)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 27)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 28)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 29)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 30)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 31)
---	Gly	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 32)
---	Gly	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 33)
---	Gly	---	Cys	Gly	Glu	---	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 34)
---	Gly	---	Cys	Gly	Glu	---	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 35)
---	Gly	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 36)
---	Gly	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	---					

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---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 1)
---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 2)
---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 3)
---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 4)
---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 5)
---	Gly	Thr	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 6)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 7)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 8)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	---	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 9)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	---	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 10)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	---	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 11)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	---	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 12)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 13)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 14)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 15)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 16)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 17)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 18)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 19)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 20)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 21)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 22)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 23)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 24)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 25)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 26)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 27)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 28)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 29)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 30)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 31)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 32)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 33)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 34)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	---	Gly	Cys	(SEQ ID NO: 35)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	Thr	---	Cys	(SEQ ID NO: 36)
---	Gly	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	---	Gly</		

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Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 1)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 2)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 3)
Pro	---	---	Cys	---	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 4)
Pro	---	---	Cys	---	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 5)
Pro	---	---	Cys	---	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 6)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 7)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 8)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 9)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 10)
Pro	---	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 11)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 12)
Pro	---	---	Cys	Gly	---	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 13)
Pro	---	---	Cys	Gly	---	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 14)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 15)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 16)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 17)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 18)
Pro	---	---	Cys	Gly	---	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 19)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 20)
Pro	---	---	Cys	Gly	Glu	---	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 21)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 22)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 23)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 24)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 25)
Pro	---	---	Cys	Gly	Glu	---	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 26)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 27)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 28)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 29)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 30)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 31)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 32)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 33)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 34)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 35)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 36)
Pro	---	---	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 37)

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Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 1)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 2)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 3)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 4)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 5)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 6)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 7)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 8)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 9)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	---	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 10)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 11)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 12)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 13)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 14)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 15)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 16)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 17)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 18)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 19)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 20)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	---	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 21)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 22)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 23)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	---	Gly	Cys	(SEQ ID NO: 24)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	---	Cys	Thr	---	Cys	(SEQ ID NO: 25)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 26)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	---	---	Cys	(SEQ ID NO: 27)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	---	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 28)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	Gly	Cys	(SEQ ID NO: 29)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	---	Gly	Cys	(SEQ ID NO: 30)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	---	---	Cys	(SEQ ID NO: 31)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	---	Cys	Thr	---	Cys	(SEQ ID NO: 32)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	Gly	Cys	(SEQ ID NO: 33)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	---	---	Cys	(SEQ ID NO: 34)
Pro	---	Thr	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	---	Cys	(SEQ ID NO: 35)
Pro	Gly	---	Cys	Gly	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 36)
Pro	Gly	---	Cys	---	Glu	Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys	(SEQ ID NO: 37)
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FIG. 4
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FIG. 4
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[illegible]

[illegible]

FIG. 4
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FIG. 4
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[illegible]

[illegible]

FIG. 4
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[illegible]

[illegible]

[illegible]

FIG. 4
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[illegible]

FIG. 4
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[illegible]

FIG. 4
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[illegible]

[illegible]

[illegible]

FIG. 4
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[illegible]

FIG. 4
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[illegible]

FIG. 4
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[illegible]

FIG. 4
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[illegible]

[illegible]

[illegible]

FIG. 4
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[illegible]

FIG. 4
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FIG. 4
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[illegible]

[illegible]

[illegible]

PGTCEICAYAACTGC (human) (SEQ ID NO:)	PGTCAEICAYAACTGC (SEQ ID NO:)
PGTCEICASAACTGC (SEQ ID NO:)	PGTCEAICAYAACTGC (SEQ ID NO:)
PGTCEICATAAACTGC (SEQ ID NO:)	PGTCEIACAYAACTGC (SEQ ID NO:)
PGTCEICANAACTGC (SEQ ID NO:)	PGTCEICAAAYAACTGC (SEQ ID NO:)
PGTCEICAQAACTGC (SEQ ID NO:)	PGTCEICAYAAAACCTGC (SEQ ID NO:)
PGTCEICARAACTGC (SEQ ID NO:)	PGTCEICAYAAACATGC (SEQ ID NO:)
PGTCEICAEAACTGC (SEQ ID NO:)	PGTCEICAYAACTAGC (SEQ ID NO:)
PGTCEICADAACTGC (SEQ ID NO:)	PGTCEICAYAACTGAC (SEQ ID NO:)
PGTCEICAGAACTGC (SEQ ID NO:)	PGTCAEICAAAYAACTGC (SEQ ID NO:)
PGTCEICAAAACTGC (SEQ ID NO:)	PGTCEAICAAAYAACTGC (SEQ ID NO:)
PGTCEICAMAACTGC (SEQ ID NO:)	PGTCEIACAAYAACTGC (SEQ ID NO:)
PGTCEICAIAAACTGC (SEQ ID NO:)	SHTCEICAFAAACAGC (SEQ ID NO:)
PGTCEICALAACTGC (SEQ ID NO:)	STCEICAYAAACAGC (SEQ ID NO:)
PGTCEICAVAACTGC (SEQ ID NO:)	PNTCEICAYAACTGC (SEQ ID NO:)
PGTCEICAHAACTGC (SEQ ID NO:)	PDPCEICANAACTGCL (SEQ ID NO:)
PGTCEGICAYAACTGC (SEQ ID NO:)	YDECEICMFAACTGC (SEQ ID NO:)
PGTCEIGCAYAACTGC (SEQ ID NO:)	VCEICAFAACTGC (SEQ ID NO:)
PGTCEICGAYAACTGC (SEQ ID NO:)	PDVCDVCAFAACSGC (SEQ ID NO:)
PGTCEICAGYAACTGC (SEQ ID NO:)	LDLCEICAFAACTGC (SEQ ID NO:)
PGTCEICAYGAACTGC (SEQ ID NO:)	VDVCEICAFAACTGC (SEQ ID NO:)
PGTCEICAYAGACTGC (SEQ ID NO:)	LDICEICAFAACTGC ((SEQ ID NO:..)
PGTCEICAYAAGCTGC (SEQ ID NO:)	
PGTCEICAYAACGTGC (SEQ ID NO:)	
PGTCEICAYAACTGC (SEQ ID NO:)	

FIGURE 5